



# Pennsylvania State Fire Academy

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## Minimum Standard for Accreditation (MSA)

February 3, 2000

**Course Title:** *Radiological Assistant Instructor Course* (formally the Radiological Monitors Instructor Course (RMIC))

**Length of Course:** 16 hours

**Lecture/Lab Breakdown:** 8/8

### **Prerequisites:**

- 1) Completion of PEMA/FEMA Fundamentals Course for Radiological Response Team members (FCRRT) or PEMA/DOE Radiological Response Team course (RRT)
- 2) Completion of PEMA/FEMA Fundamentals Course for Radiological Monitors (FCRM) or PEMA/DOE Radiological Assistant Course (RAC)
- 3) Assignment as a Radiological Monitor/Assistant Instructor and authorization/approval by a Federal, State, or local agency.
- 4) Experience in teaching adults, or completion of an instructional techniques course (such as FEMA's *Instructional Presentation Skills Course* or the PA State Fire Academy's *Adult Methodology Course*)

**Course Goal:** The purpose of the Radiological Assistant Instructor Course (RAIC) is to qualify individuals to effectively conduct the Pennsylvania Emergency Management Agency's Radiological Assistant Course (RAC). This course will enable individuals to manage the learning process in the RAC so that RAC graduates possess the knowledge and skill necessary to conduct radiological awareness activities in the event of a radiological incident.

**Description of Course:** Provide participants with the basic understanding of ionizing radiation, sources of radiation, biological effects of radiation exposure, provide skills necessary to provide useful radiological response information to follow-on response elements, and to initiate protective actions for themselves, victims, and the general population.

**Description of Methodology to be used:** Lecture, and discussion.

**IMPORTANT NOTICE:** Maximum class size for this course is 30 students; **no exceptions.**

**Student Equipment/Supply Needs:** DOE Modular Emergency Radiological Response Transportation Training Student Workbook, 1996 North American Emergency Response Guidebook, DOT P5800.4, DOE Response Wheel for Radioactive Materials, REAC/TS Transport of Radioactive Material – Q&A About Incident Response Pocket Guidebook

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**Equipment/Audiovisual/Supply Requirements:** DOE Modular Emergency Radiological Response Transportation Training (MERRTT) Instructor Workbook, Modules 1-6; “The Transportation of Radioactive and Other Hazardous Material... Safety Our Prime Concern” FEMA VT 326.1; Pre-Hospital VT 320; Hazardous Material Awareness: Response to Rail Accidents” FEMA VT 326.1; “Step by Step .... The Transportation of Radioactive and Other Hazardous Materials” FEMA VT 326.3; “Highway Shipments of Spent Nuclear Fuel” FEMA VT 326.4; “Ionizing Radiation and its Biological Effects” FEMA VT 326.5 (323); Radiological Assessment Case Study & Exercise” FEMA VT 326.6. Minimum Standard for Accreditation

**COURSE OUTLINE**

1.	Introduction	<b>0.5</b>
2.	Recruiting and Scheduling	<b>1.0</b>
3.	Instructional Techniques	<b>1.0</b>
4.	Review of the Radiological Assistant Course	<b>4.0</b>
5.	Micro-Teaching Exercise (PEMA/DOE material)	<b>9.0</b>
6.	Summary and Graduation	<b><u>0.5</u></b>
<b>TOTAL</b>		<b>16.0 hours</b>

**Competency Evaluation Mechanism (brief description – attach copy):** Each module has a quiz and then students will need to take a final facilitated exam. A minimum test score of 70% is recommended to enable course attendees to receive a PEMA or State Fire Academy Certificate of Training.

**Course Objective (specific):** Upon completion of this course, the trainee will:

- 1) Demonstrate ability to effectively conduct PEMA/DOE course by individually conduct two PEMA/DOE Module 1-6 segments and conduct a radiological awareness exercise.
- 2) Discuss RAC course scheduling, recruiting, and logistics.
- 3) Demonstrate understanding of adult learning principles by using teaching methods that ensure participant involvement in the learning process.

**It should be noted that the RAIC is not intended to substitute for experience and/or training in adult education.**

**Questions/Comments: Rita Wessel, Curriculum Specialist: Extension 106  
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